## **AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

## **LISTING OF THE CLAIMS**

- 1. (Currently Amended) A lighting apparatus for emitting white light comprising:
  a semiconductor light source emitting radiation having a peak emission in the UV;
  and
- a phosphor composition radiationally coupled to the light source, the phosphor composition comprising  $(Ba,Sr,Ca)SiO_4$ :Eu, one or more garnet phosphors having the general formula  $(Y,Gd,La,Lu,Tb,Pr,Sm)_3(Al,Ga,In)_5O_{12}$ :Ce, and at least one phosphor selected from the group consisting of  $(Sr,Mg,Ca,Ba,Zn)_2P_2O_7$ :Eu,Mn;  $(Ca,Sr,Ba,Mg)_5(PO_4)_3(Cl,F,OH)$ :Eu,Mn; and  $(Sr,Mg,Ca,)MgAl_{10}O_{17}$ :Eu,Mn, wherein said  $(Ba,Sr,Ca)SiO_4$ :Eu phosphor comprises  $(Sr_{0.95}Ba_{0.025}Eu_{0.025})_2SiO_4$  or  $(Sr_{0.58}Ca_{0.036}Eu_{0.06})_2SiO_4$ .
- 2. (Original) The lighting apparatus of claim 1, wherein the light source is an LED.
- 3. (Original) The lighting apparatus of claim 2, wherein the LED comprises a nitride compound semiconductor represented by the formula  $In_iGa_jAl_kN$ , where  $0 \le i$ ;  $0 \le j$ ,  $0 \le K$ , and i+j+k=1.
- 4. (Original) The lighting apparatus of claim 1, wherein the light source is an organic emissive structure.
- 5. (Original) The lighting apparatus of claim 1, wherein the phosphor composition is coated on the surface of the light source.
- 6. (Original) The lighting apparatus of claim 1, further comprising an encapsulant surrounding the light source and the phosphor composition.

- 7. (Original) The lighting apparatus of claim 1, wherein the phosphor composition is dispersed in the encapsulant.
- 8. (Original) The lighting apparatus of claim 1, further comprising a reflector cup.
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Original) The lighting apparatus of claim 10, wherein said apparatus has a color point with ccx value of 0.5286 and a ccy value of 0.4604.
- 12. (Original) The lighting apparatus of claim 1, wherein said phosphor composition further comprises one or more additional phosphor.
- The lighting apparatus of claim 12, wherein said one or 13. (Previously Presented) from group consisting of additional phosphors selected are more (Ba,Sr,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Ba,Sr,Ca)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,Br,OH):Eu<sup>2+</sup>,Mn<sup>2+</sup>,Sb<sup>3+</sup>;  $(Ba,Sr,Ca)BPO_5:Eu^{2+},Mn^{2+};$   $(Sr,Ca)_{10}(PO_4)_6*nB_2O_3:Eu^{2+};$   $2SrO*0.84P_2O_5*0.16B_2O_3:Eu^{2+};$  $Sr_2Si_3O_{8*2}SrCl_2:Eu^{2+}; \quad Ba_3MgSi_2O_8:Eu^{2+}; \quad Sr_4Al_{14}O_{25}:Eu^{2+}; \quad BaAl_8O_{13}:Eu^{2+}; \quad 2SrO-0.84P_2O_{5-1}O_{14}O_{15}:Eu^{2+}; \quad 2SrO-0.84P_2O_{5-1}O_{15$ (Y,Gd,Lu,Sc,La)BO<sub>3</sub>:Ce<sup>3+</sup>,Tb<sup>3+</sup>;  $(Ba,Sr,Ca)Al_2O_4:Eu^{2+}$ ;  $_{0.16}B_2O_3:Eu^{2+};$  $(Sr,Ca,Ba)(Al,Ga,In)_2S_4:Eu^{2+};$ (Y,Gd,Tb,La,Sm,Pr,  $(Ba,Sr,Ca)_2(Mg,Zn)Si_2O_7:Eu^{2+};$  $Lu)_{3}(Al,Ga)_{5}O_{12}:Ce^{3+}; \qquad (Ca,Sr)_{8}(Mg,Zn)(SiO_{4})_{4}Cl_{2}: \qquad Eu^{2+},Mn^{2+}; \qquad Na_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \qquad Ca_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{2}Gd_{2}B_{2$  $(Sr,Ca,Ba,Mg,Zn)_2P_2O_7:Eu^{2+},Mn^{2+};$  $(Ba,Sr)_2(Ca,Mg,Zn)B_2O_6:K,Ce,Tb;$  $Eu^{2+},Mn^{2+};$ (Gd,Y,Lu,La)<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup>,Bi<sup>3+</sup>:  $(Ca,Sr,Ba,Mg)_{10}(PO_4)_6(F,C1,Br,OH)$ :  $(Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+}; \qquad (Gd,Y,Lu,La)VO_4:Eu^{3+},Bi^{3+}; \qquad (Ca,Sr)S:Eu^{2+}; \qquad SrY_2S_4:Eu^{2+}; \qquad SrY_2S_5:Eu^{2+}; \qquad SrY_2S_5:E$  $CaLa_{2}S_{4}:Ce^{3+}; \quad (Ca,Sr)S:Eu^{2+}; \quad 3.5MgO*0.5MgF_{2}*GeO_{2}:Mn^{4+}; \quad (Ba,Sr,Ca)MgP_{2}O_{7}:Eu^{2+},Mn^{2+}; \quad (Ca,Sr)S:Eu^{2+}; \quad$  $(Y.Lu)_2WO_6:Eu^3+, Mo^{6+}; (Ba,Sr,Ca)_xSi_vN_z:Eu^{2+}.$
- 14. (Currently Amended) A lighting apparatus for emitting white light comprising:
  a UV light source emitting radiation having a peak emission in the UV range; and
  a phosphor composition radiationally coupled to the light source, the phosphor

composition comprising (Sr,Ba,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu, one or more garnet phosphors having the general formula (Y,Gd,La,Lu,Tb,Pr,Sm)<sub>3</sub>(Al,Ga,In)<sub>5</sub>O<sub>12</sub>:Ce and a magnesium fluorogermanate phosphor, wherein said (Sr,Br,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu phosphor comprises (Sr<sub>0.95</sub>Ba<sub>0.025</sub> Eu<sub>0.025</sub>)<sub>2</sub>SiO<sub>4</sub> or (Sr<sub>0.58</sub>Ca<sub>0.036</sub> Eu<sub>0.06</sub>)<sub>2</sub>SiO<sub>4</sub>.

- 15. (Original) The lighting apparatus of claim 14, wherein the light source is a semiconductor LED.
- 16. (Original) The lighting apparatus of claim 14, wherein the LED comprises a nitride compound semiconductor represented by the formula  $In_iGa_jAl_kN$ , where  $0 \le i$ ;  $0 \le j$ ,  $0 \le K$ , and i+j+k=1.
- 17. (Original) The lighting apparatus of claim 14, wherein said light source is an organic emissive structure.
- 18. (Original) The lighting apparatus of claim 14, wherein the phosphor composition is coated on the surface of the light source.
- 19. (Original) The lighting apparatus of claim 14, further comprising an encapsulant surrounding the light source and the phosphor composition.
- 20. (Original) The lighting apparatus of claim 14, wherein the phosphor composition is dispersed in the encapsulant.
- 21. (Original) The lighting apparatus of claim 14, further comprising a reflector cup.
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Original) The lighting apparatus of claim 14, wherein said apparatus has a color point with ccx value of 0.5286 and a ccy value of 0.4604.

- 25. (Original) The lighting apparatus of claim 14, wherein said phosphor composition further comprises one or more additional phosphors.
- The lighting apparatus of claim 21, wherein said one or 26. (Previously Presented) consisting the group from more additional phosphors are selected (Ba,Sr,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Ba,Sr,Ca)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,Br,OH):Eu<sup>2+</sup>,Mn<sup>2+</sup>,Sb<sup>3+</sup>;  $(Ba,Sr,Ca)BPO_5:Eu^{2+},Mn^{2+}; \qquad (Sr,Ca)_{10}(PO_4)_6*nB_2O_3:Eu^{2+}; \qquad 2SrO*0.84P_2O_5*0.16B_2O_3:Eu^{2+}; \\$  $Sr_2Si_3O_{8*2}SrCl_2:Eu^{2+}; \quad Ba_3MgSi_2O_8:Eu^{2+}; \quad Sr_4Al_{14}O_{25}:Eu^{2+}; \quad BaAl_8O_{13}:Eu^{2+}; \quad 2SrO-0.84P_2O_{5-1}O_{14}O_{15}:Eu^{2+}; \quad 2SrO-0.84P_2O_{5-1}O_{15$ (Ba,Sr,Ca)Al<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Lu,Sc,La)BO<sub>3</sub>:Ce<sup>3+</sup>,Tb<sup>3+</sup>;  $_{0.16}B_2O_3:Eu^{2+};$ (Sr,Ca,Ba)(Al,Ga,In)<sub>2</sub>S<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Tb,La,Sm,Pr,  $(Ba,Sr,Ca)_2(Mg,Zn)Si_2O_7:Eu^{2+};$  $Lu)_{3}(Al,Ga)_{5}O_{12}:Ce^{3+}; \qquad (Ca,Sr)_{8}(Mg,Zn)(SiO_{4})_{4}Cl_{2}: \qquad Eu^{2+},Mn^{2+}; \qquad Na_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{3}Gd_{2}B_{3}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{4}Gd_{2}B_{3}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{5}Gd_{5}B_{5}O_{7}:Ce^{3+},Tb^{3+}; \\ Na_{5}Gd_{5}B_{5$  $(Sr,Ca,Ba,Mg,Zn)_2P_2O_7:Eu^{2+},Mn^{2+};$  $(Ba,Sr)_2(Ca,Mg,Zn)B_2O_6:K,Ce,Tb;$ Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Gd,Y,Lu,La)<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup>,Bi<sup>3+</sup>;  $(Ca,Sr,Ba,Mg)_{10}(PO_4)_6(F,Cl,Br,OH)$ :  $(Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+};$   $(Gd,Y,Lu,La)VO_4:Eu^{3+},Bi^{3+};$   $(Ca,Sr)S:Eu^{2+};$   $SrY_2S_4:Eu^{2+};$  $CaLa_2S_4:Ce^{3+}$ ;  $(Ca,Sr)S:Eu^{2+}$ ;  $3.5MgO*0.5MgF_2*GeO_2:Mn^{4+}$ ;  $(Ba,Sr,Ca)MgP_2O_7:Eu^{2+},Mn^{2+}$ ;  $(Y,Lu)_2WO_6:Eu^3+, Mo^{6+}; (Ba,Sr,Ca)_xSi_vN_z:Eu^{2+}.$
- 27. (Previously Presented) A lighting apparatus for emitting white light comprising: a semiconductor light source emitting radiation having a peak emission in the UV range; and
- a phosphor composition radiationally coupled to the light source, the phosphor composition comprising (Ba,Sr,Ca)SiO<sub>4</sub>:Eu, and one or more additional phosphors, wherein said (Ba,Sr,Ca)SiO<sub>4</sub>:Eu phosphor comprises (Sr<sub>0.95</sub>Ba<sub>0.025</sub> Eu<sub>0.025</sub>)<sub>2</sub>SiO<sub>4</sub> or (Sr<sub>0.58</sub>Ca<sub>0.036</sub> Eu<sub>0.06</sub>)<sub>2</sub>SiO<sub>4</sub>.
- 28. (Original) The lighting apparatus of claim 27, wherein the light source is a semiconductor LED.
- 29. (Original) The lighting apparatus of claim 27, wherein the LED comprises a nitride compound semiconductor represented by the formula  $In_iGa_jAl_kN$ , where  $0 \le i$ ;  $0 \le j$ ,  $0 \le K$ , and i+j+k=1.

- 30. (Original) The lighting apparatus of claim 27, wherein said light source is an organic emissive structure.
- 31. (Original) The lighting apparatus of claim 27, wherein the phosphor composition is coated on the surface of the light source.
- 32. (Original) The lighting apparatus of claim 27, further comprising an encapsulant surrounding the light source and the phosphor composition.
- 33. (Original) The lighting apparatus of claim 27, wherein the phosphor composition is dispersed in the encapsulant.
- 34. (Original) The lighting apparatus of claim 27, further comprising a reflector cup.
- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Previously Presented) The lighting apparatus of claim 27, wherein said apparatus has a color point with a ccx value or 0.5286 and a ccy value of 0.4604.
- 38. Canceled
- The lighting apparatus of claim 32, wherein said one or 39. (Previously Presented) consisting from the group phosphors selected more additional (Ba,Sr,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>;  $(Ba,Sr,Ca)_5(PO_4)_3(Cl,F,Br,OH):Eu^{2+},Mn^{2+},Sb^{3+};\\$  $(Ba,Sr,Ca)BPO_5:Eu^{2+},Mn^{2+}; \qquad (Sr,Ca)_{10}(PO_4)_6*nB_2O_3:Eu^{2+}; \qquad 2SrO*0.84P_2O_5*0.16B_2O_3:Eu^{2+};$  $Sr_2Si_3O_{8*2}SrCl_2:Eu^{2+};$   $Ba_3MgSi_2O_8:Eu^{2+};$   $Sr_4Al_{14}O_{25}:Eu^{2+};$   $BaAl_8O_{13}:Eu^{2+};$   $2SrO-0.84P_2O_{5-1}$ (Ba,Sr,Ca)Al<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Lu,Sc,La)BO<sub>3</sub>:Ce<sup>3+</sup>,Tb<sup>3+</sup>;  $_{0.16}B_2O_3:Eu^{2+};$  $(Sr,Ca,Ba)(Al,Ga,In)_2S_4:Eu^{2+};$  (Y,Gd,Tb,La,Sm,Pr, $(Ba,Sr,Ca)_2(Mg,Zn)Si_2O_7:Eu^{2+};$  $Lu)_{3}(Al,Ga)_{5}O_{12}:Ce^{3+}; \qquad (Ca,Sr)_{8}(Mg,Zn)(SiO_{4})_{4}Cl_{2}: \qquad Eu^{2+},Mn^{2+}; \qquad Na_{2}Gd_{2}B_{2}O_{7}:Ce^{3+},Tb^{3+}; \\$

 $(Ba,Sr)_2(Ca,Mg,Zn)B_2O_6:K,Ce,Tb; \\ (Ca,Sr,Ba,Mg)_{10}(PO_4)_6(F,Cl,Br,OH): Eu^{2+},Mn^{2+}; \\ (Ca,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+}; \\ (Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+}; \\ (Ca,Sr)S:Eu^{2+}; SrY_2S_4:Eu^{2+}; \\ CaLa_2S_4:Ce^{3+}; (Ca,Sr)S:Eu^{2+}; 3.5MgO*0.5MgF_2*GeO_2:Mn^{4+}; (Ba,Sr,Ca)MgP_2O_7:Eu^{2+},Mn^{2+}; \\ (Y,Lu)_2WO_6:Eu^{3+},Mo^{6+}; (Ba,Sr,Ca)_xSi_yN_z:Eu^{2+}. \\$ 

- 40. (Currently Amended) A phosphor blend including (Sr,Ba,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu and at least one of (Sr,Mg,Ca,Ba,Zn)<sub>2</sub>P<sub>2</sub>O<sub>7</sub>:Eu,Mn; (Ca,Sr,Ba,Mg)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,OH):Eu,Mn; and (Sr,Ba,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu,Mn, wherein said (Sr,Ba,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu phosphor comprises (Sr<sub>0.95</sub>Ba<sub>0.025</sub> Eu<sub>0.025</sub>)<sub>2</sub>SiO<sub>4</sub> or (Sr<sub>0.58</sub>Ca<sub>0.036</sub>Eu<sub>0.06</sub>)<sub>2</sub>SiO<sub>4</sub>.
- 41. (Cancelled)
- 42. (Cancelled)
- 43. (Previously Presented) The phosphor blend of claim 40, wherein said phosphor blend is capable of absorbing the radiation emitted by a light source having a peak emission in the UV range and emitting radiation that, when combined with said radiation from said light source, produces white light.
- 44. (Cancelled)
- 45. (Previously Presented) The lighting apparatus of claim 1, wherein said semiconductor light source has a peak emission at about 405 nm.
- 46. (Currently Amended) A lighting apparatus for emitting white light comprising:

a semiconductor light source emitting radiation having a peak emission in the UV; and

a phosphor composition radiationally coupled to the light source, the phosphor composition comprising (Sr,Ba,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu, and at least one phosphor selected from the group consisting of ((Sr,Mg,Ca,Ba,Zn)<sub>2</sub>P<sub>2</sub>O<sub>7</sub>:Eu,Mn; (Ca,Sr,Ba,Mg)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,OH):Eu,Mn; and

 $(Sr,Ba,Ca)MgAl_{10}O_{17}:Eu,Mn, \ \ wherein \ \ said \ \ (Sr,Br,Ca)_2SiO_4:Eu \ \ phosphor \ \ comprises \ \ (Sr_{0.95}Ba_{0.025})_2SiO_4 \ \ or \ \ (Sr_{0.58}Ca_{0.036}\ Eu_{0.06})_2SiO_4.$